

AUTOMATIC GENERATION OF APPLICATION PROGRAM INTERFACES,
SOURCE CODE, INTERRUPTS, AND DATASHEETS FOR MICROCONTROLLER
PROGRAMMING

5 ABSTRACT

A method to facilitate programming a microcontroller is disclosed. In one embodiment, after a user configures the circuit by selecting circuit parameters and pin-outs, various items are automatically generated to facilitate programming the microcontroller. The generated items may include: application programming
10 interfaces (APIs) for programming the operation of one or more user modules;
source code for realizing the user modules in hardware; interrupt vectors to call
interrupt service routines for one or more modules; and a data sheet for the circuit.

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